

Fig. 1a

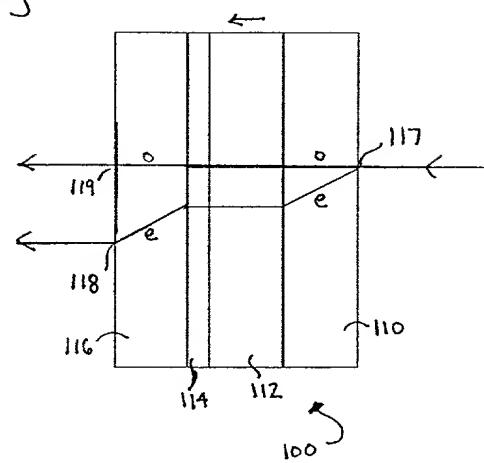


Fig. 1b

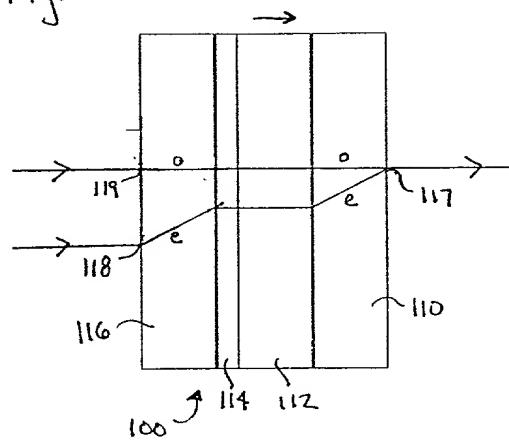


Fig. 1c

Forward Direction (transmission)

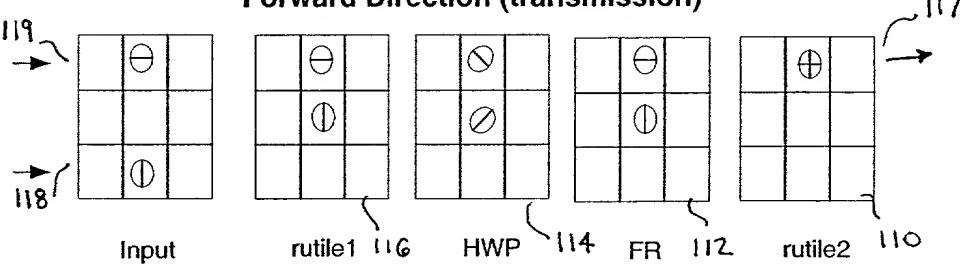


Fig. 1d

Reverse Direction (isolation)

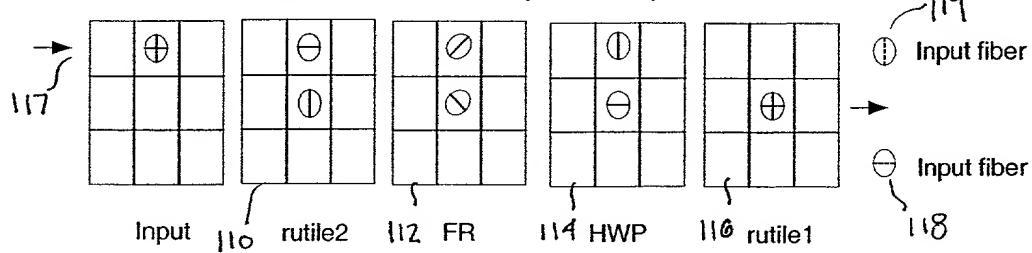


Fig. 2a

Propagation of e and o rays through the polarization beam splitter chip

*thickness of crystal 1
is the thickness of
crystal 2 x square
root of 2

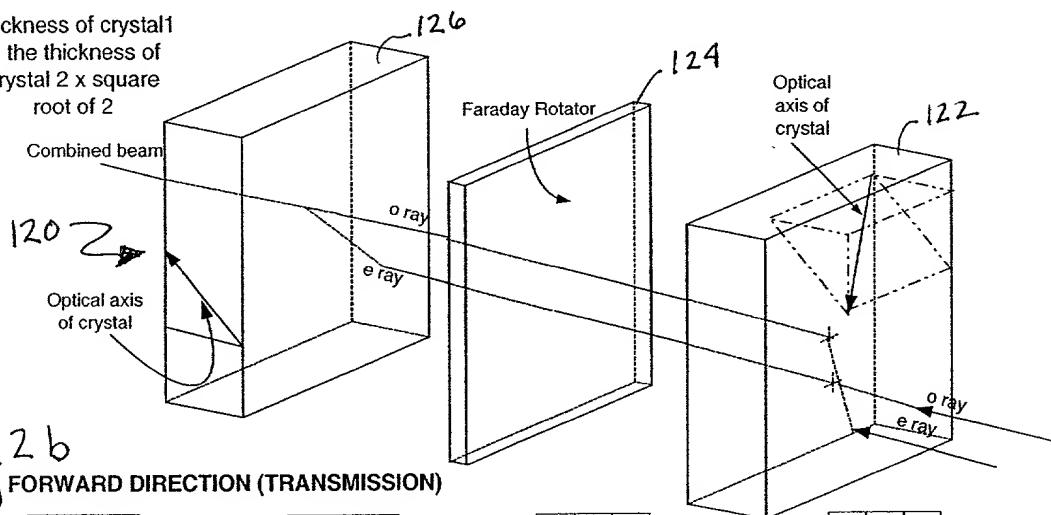
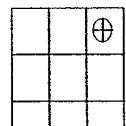
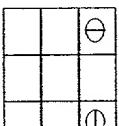


Fig. 2 b

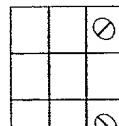
FORWARD DIRECTION (TRANSMISSION)



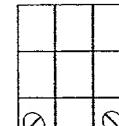
Output



Input to 2nd crystal

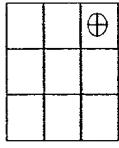


Input to FR

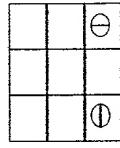


Input to 1st crystal

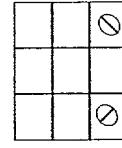
Fig. 2 c



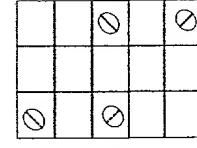
Input to 2nd crystal



Input to FR

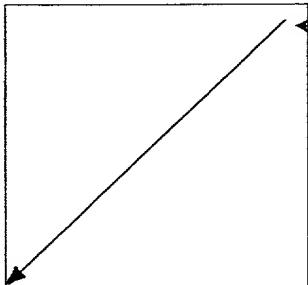


Input to 1st crystal

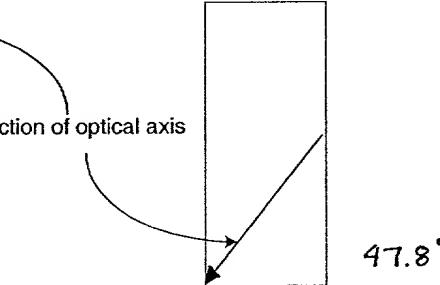


Output
(isolation)

Fig. 2 d



Font View Crystal 1



Side View Crystal 1

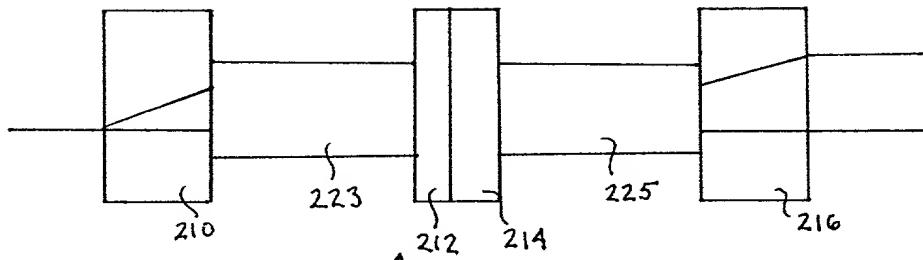
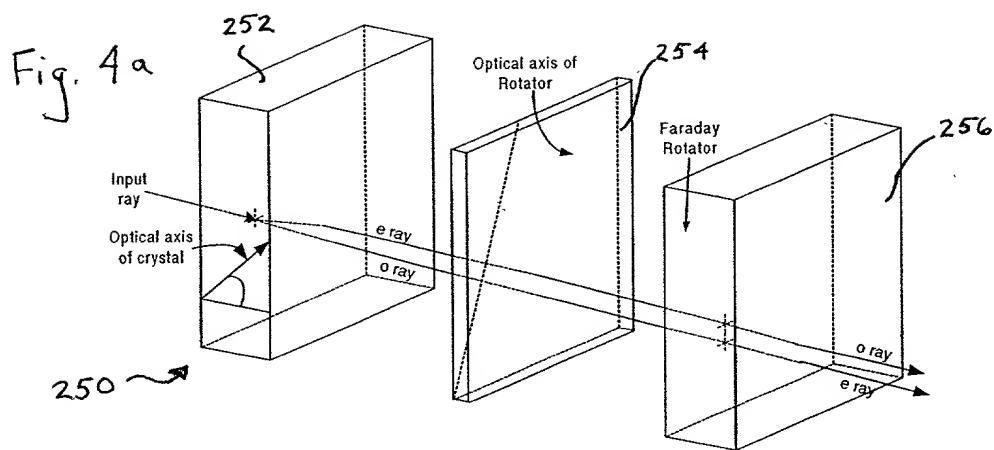
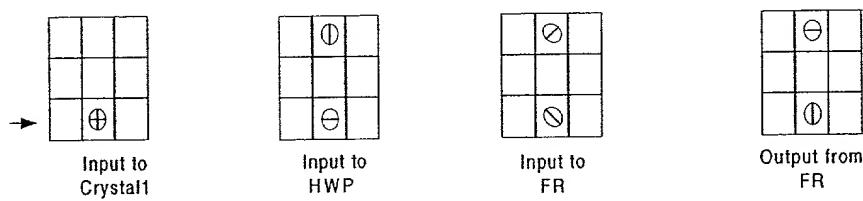


Fig. 3



Forward Direction



Reverse Direction

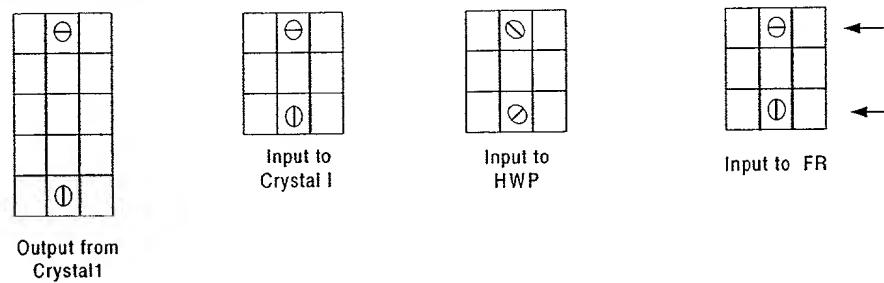


Fig. 4b

Fig. 5a

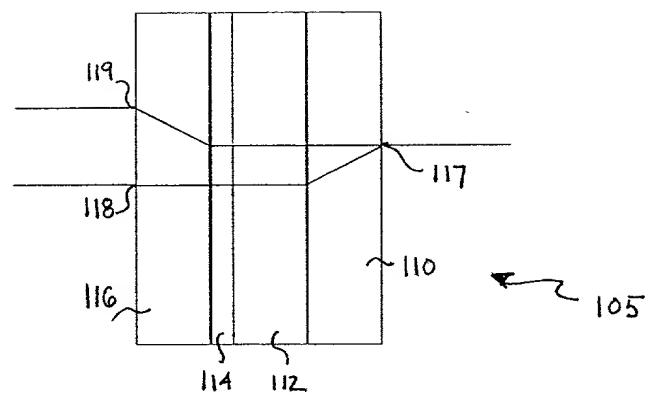


Fig. 5b

Forward Direction (transmission)

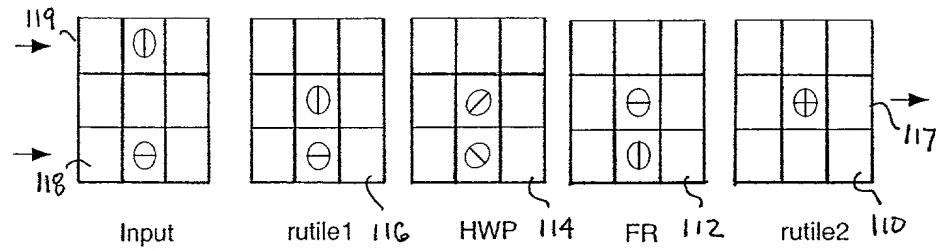
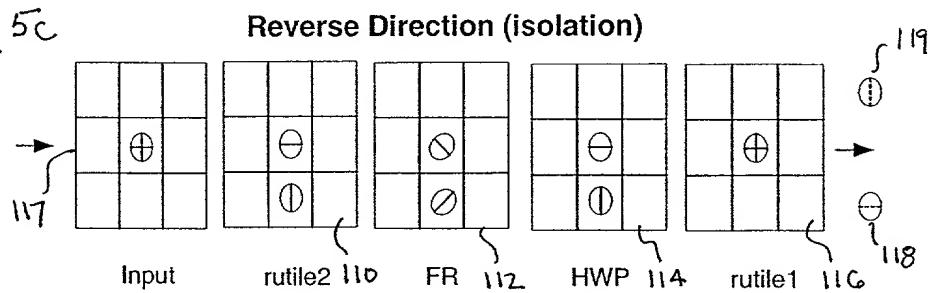


Fig. 5c

Reverse Direction (isolation)



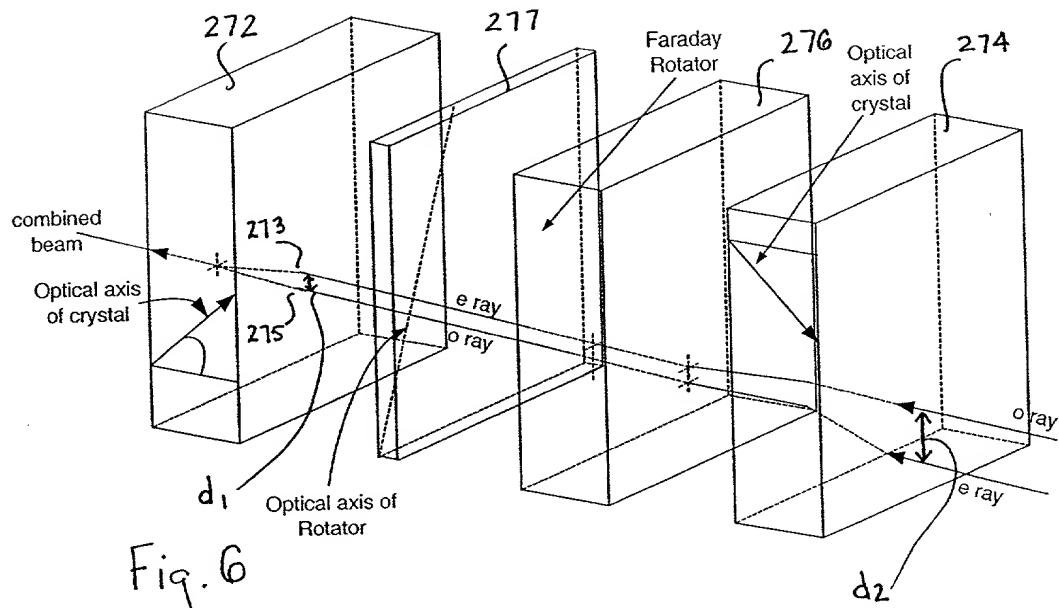


Fig. 6

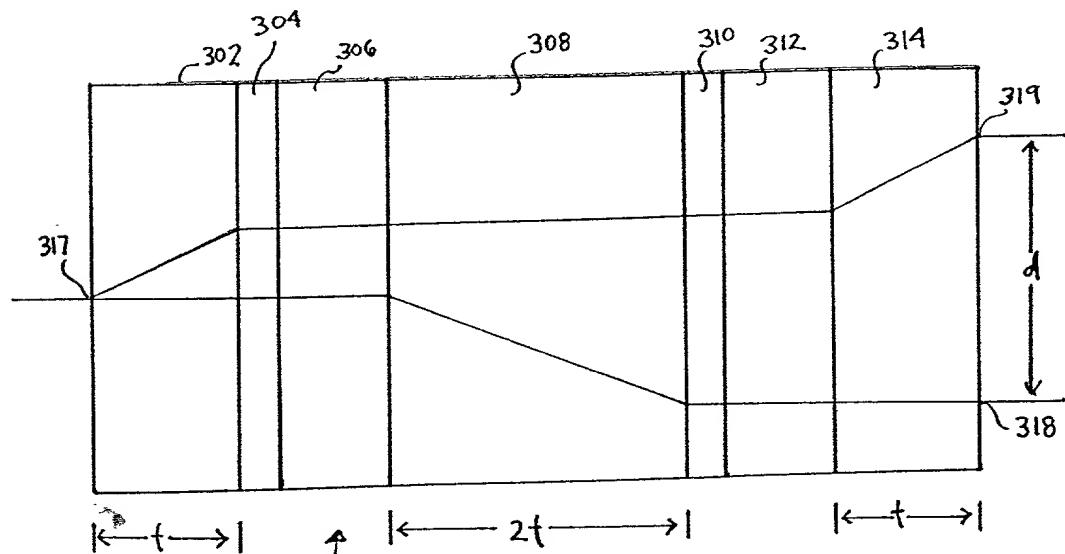


Fig. 7

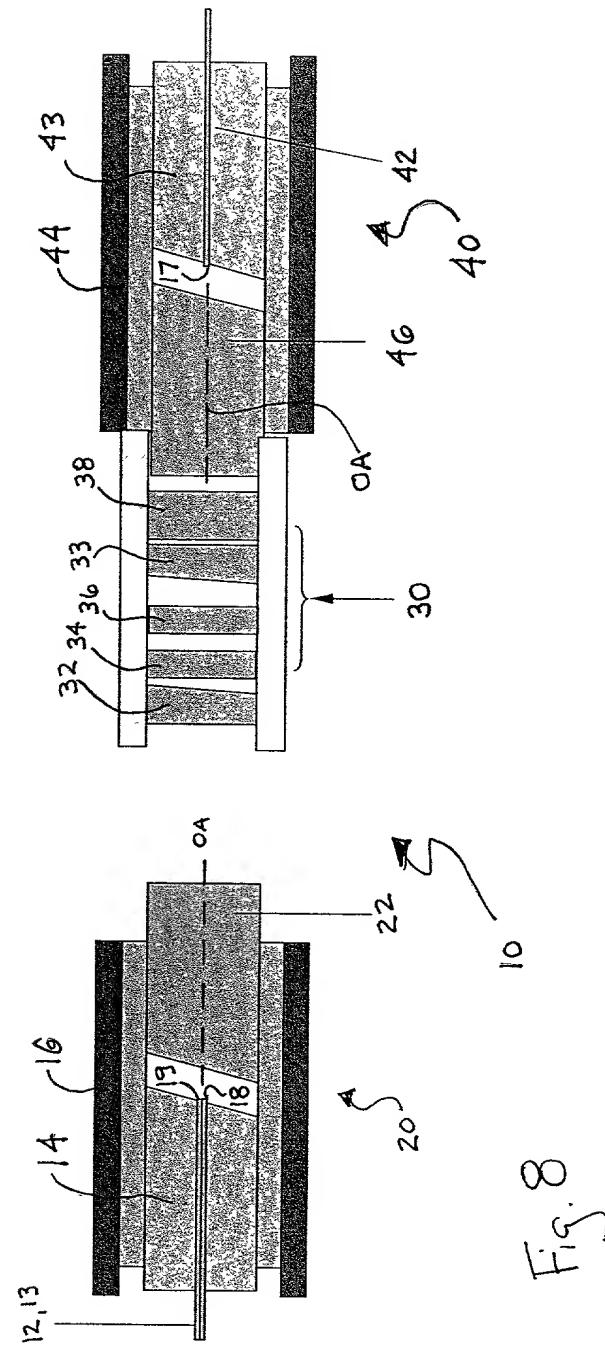
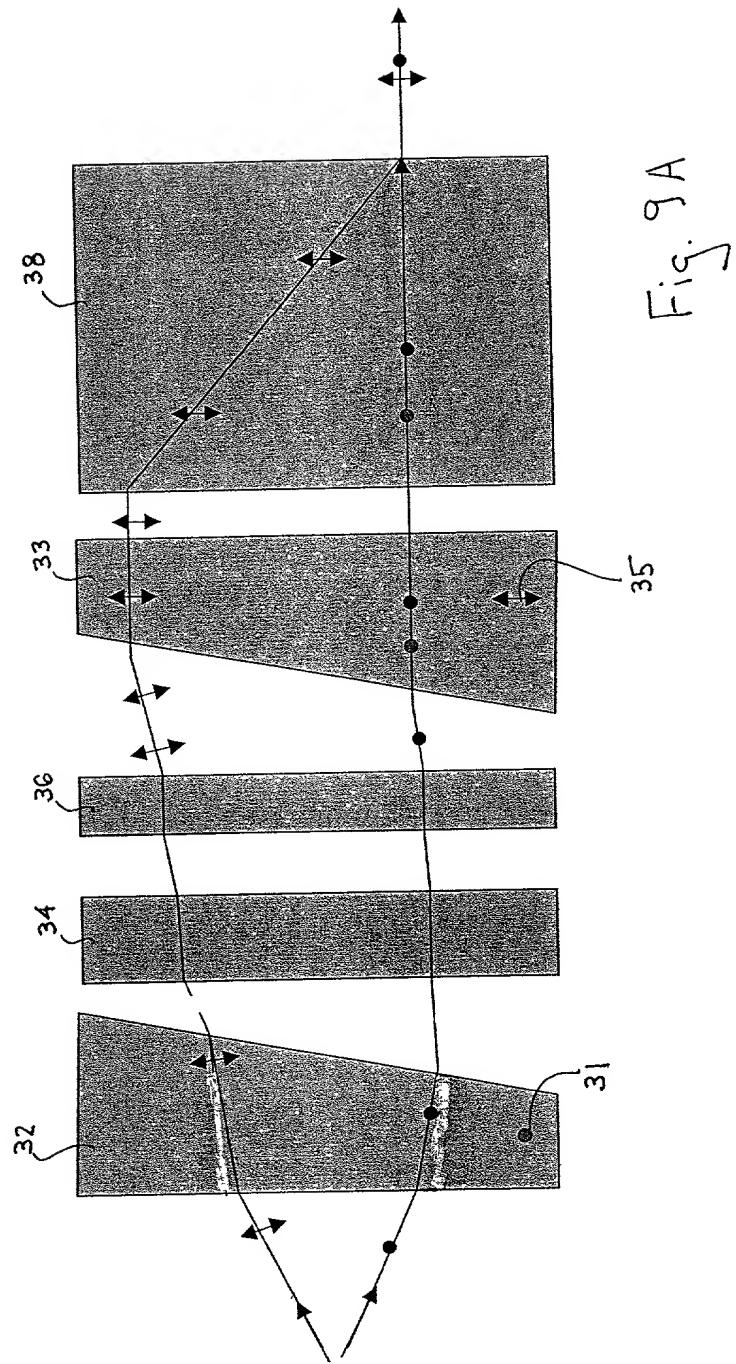


Fig. 8



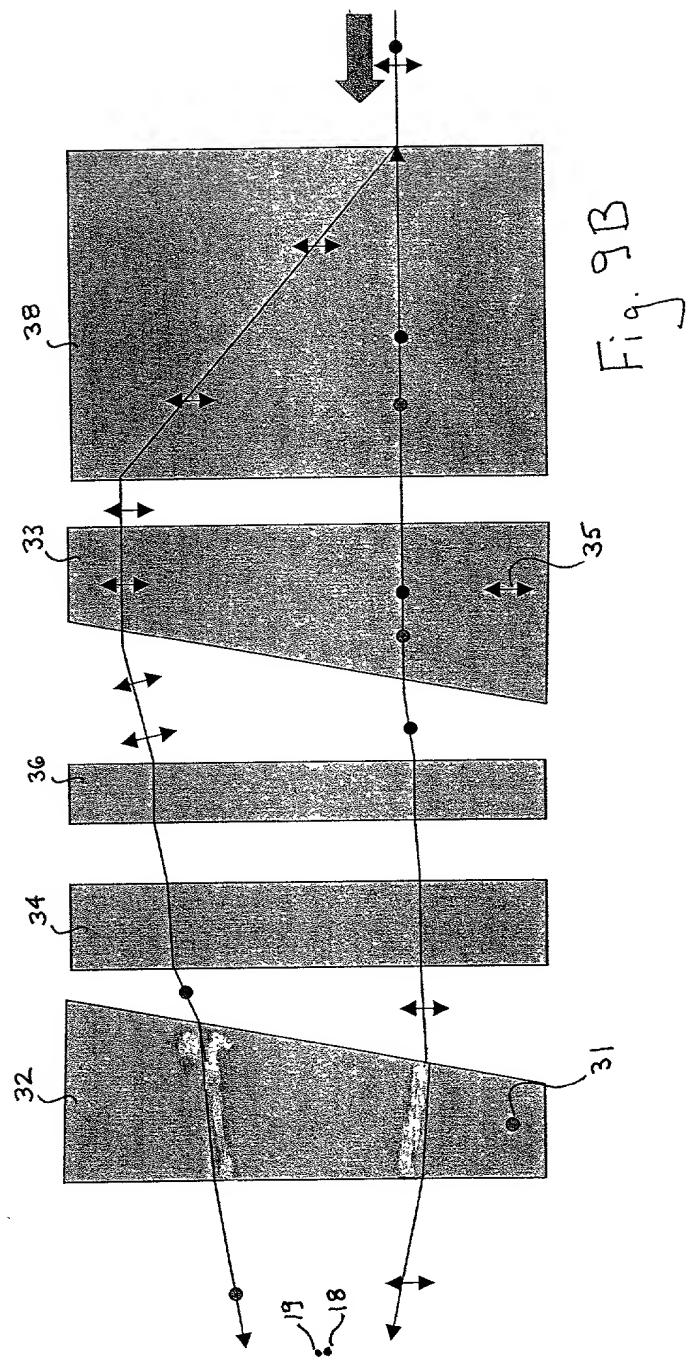


Fig. 9B